

The following listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) An electro-optical liquid-crystal display comprising a layer of liquid-crystal medium between two substrates with organic alignment layers on inside surfaces of each of said substrates;  
the liquid-crystal layer having a twist angle, from one substrate to the other, of  $110^{\circ}$ - $360^{\circ}$ ;  
the liquid-crystal layer having a surface tilt angle of  $2^{\circ}$ - $20^{\circ}$ ; and  
each of said organic alignment layers having a thickness of 3 nm-150 nm, and

wherein the difference from 1 of the steepness of the electric-optical characteristic line, represented by the formula  $V_{90}/V_{10}-1$ , is half or less of the corresponding value of an otherwise identical display in which the layer thicknesses of each of the alignment layers is 100 nm.

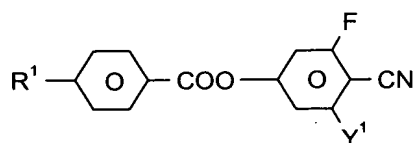
2. (Previously Presented) A display according to claim 1, at least one of said alignment layers has a layer thickness of 4 nm-60 nm.

3. (Cancelled)

4. (Previously Presented) A display according to claim 1, wherein the steepness of the electro-optical characteristic line  $V_{90}/V_{10}$  is 1.06 or less.

5. (Previously Presented) A display according to claim 1, wherein the threshold voltage ( $V_{10}$ ) of the display is 1.20 V or less.

6. (Previously Presented) A display according to claim 1, wherein said liquid-crystal medium comprises one or more compound(s) of formula I



I

wherein

$R^1$  is alkyl having 1 to 7 carbon atoms, alkoxy having 1 to 7 carbon atoms, alkoxyalkyl having 2 to 7 carbon atoms, alkenyl having 2 to 7 carbon atoms or alkenyloxy having 2 to 7 carbon atoms, and

$Y^1$  is H or F.

7. (Previously Presented) A display according to claim 1, wherein said liquid crystal medium comprises at least one compound of formula II



wherein

$R^2$  is alkyl having 1 to 7 carbon atoms, alkoxy having 1 to 7 carbon atoms, alkoxyalkyl having 2 to 7 carbon atoms, alkenyl having 2 to 7 carbon atoms or alkenyloxy having 2 to 7 carbon atoms, and

$Y^{21}$  and  $Y^{22}$  are each, independently, H or F.

8. (Previously Presented) A display according to claim 6, wherein said liquid crystal medium comprises at least one compound of formula II

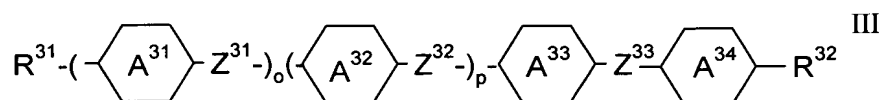


wherein

$R^2$  is alkyl having 1 to 7 carbon atoms, alkoxy having 1 to 7 carbon atoms, alkoxyalkyl having 2 to 7 carbon atoms, alkenyl having 2 to 7 carbon atoms or alkenyloxy having 2 to 7 carbon atoms, and

$Y^{21}$  and  $Y^{22}$  are each, independently, H or F.

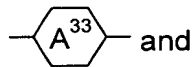
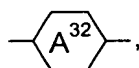
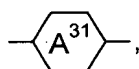
9. (Previously Presented) A display according to claim 6, wherein said liquid crystal medium comprises at least one compound of formula III



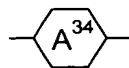
wherein

$R^{31}$  and  $R^{32}$  are each, independently of one another, alkyl having 1 to 7 carbon atoms, alkoxy having 1 to 7 carbon atoms, alkoxyalkyl, having 2 to 7 carbon atoms, alkenyl having 2 to 7 carbon atoms, or alkenyloxy having 2 to 7 carbon atoms, and

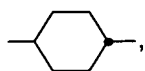
$Z^{31}$ ,  $Z^{32}$  and  $Z^{33}$  are each, independently of one another,  $-\text{CH}_2\text{CH}_2-$ ,  $-\text{CH}=\text{CH}-$ ,  $-\text{COO}-$  or a single bond,

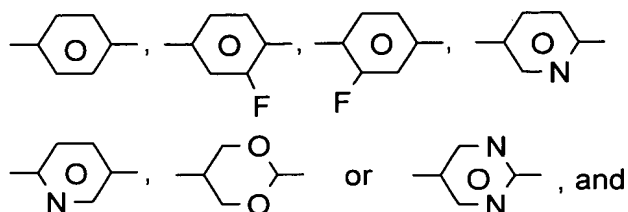


and



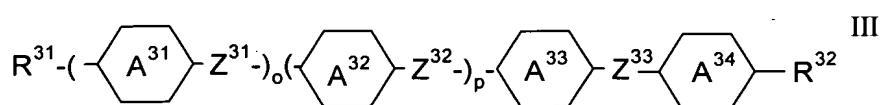
are each, independently of one another,





o and p, independently of one another, are 0 or 1.

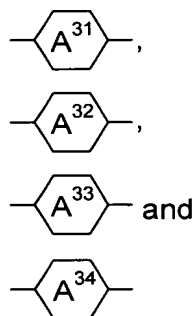
10. (Previously Presented) A display according to claim 7, wherein said liquid crystal medium comprises at least one compound of formula III



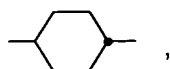
wherein

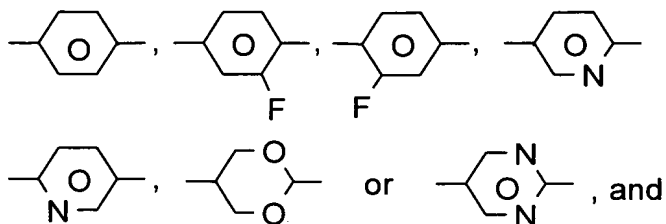
$R^{31}$  and  $R^{32}$  are each, independently of one another, alkyl having 1 to 7 carbon atoms, alkoxy having 1 to 7 carbon atoms, alkoxyalkyl, having 2 to 7 carbon atoms, alkenyl having 2 to 7 carbon atoms, or alkenyloxy having 2 to 7 carbon atoms, and

$Z^{31}$ ,  $Z^{32}$  and  $Z^{33}$  are each, independently of one another,  $-\text{CH}_2\text{CH}_2-$ ,  $-\text{CH}=\text{CH}-$ ,  $-\text{COO}-$  or a single bond,



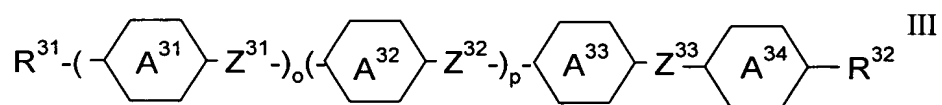
are each, independently of one another,





o and p, independently of one another, are 0 or 1.

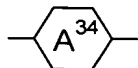
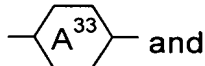
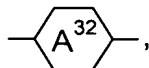
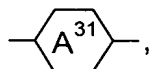
11. (Previously Presented) A display according to claim 8, wherein said liquid crystal medium comprises at least one compound of formula III



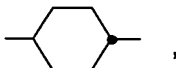
wherein

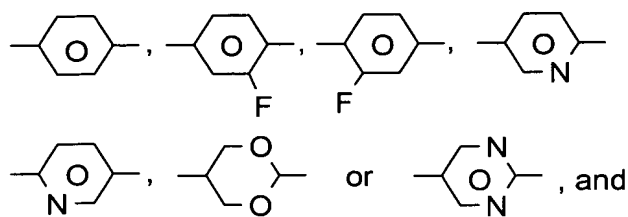
$R^{31}$  and  $R^{32}$  are each, independently of one another, alkyl having 1 to 7 carbon atoms, alkoxy having 1 to 7 carbon atoms, alkoxyalkyl, having 2 to 7 carbon atoms, alkenyl having 2 to 7 carbon atoms, or alkenyloxy having 2 to 7 carbon atoms, and

$Z^{31}$ ,  $Z^{32}$  and  $Z^{33}$  are each, independently of one another,  $-\text{CH}_2\text{CH}_2-$ ,  $-\text{CH}=\text{CH}-$ ,  $-\text{COO}-$  or a single bond,



are each, independently of one another,





o and p, independently of one another, are 0 or 1.

12. (Previously Presented) In a method of displaying information using an electro-optical liquid-crystal display, the improvement wherein said display is one in accordance with claim 1.

13. (Previously Presented) A display according to claim 1, wherein said organic alignment layers are a polyamide layer.

14. (Previously Presented) A display according to claim 1, wherein said alignment layers each have a layer thickness of 7 nm-80 nm.

15. (Previously Presented) A display according to claim 1, wherein said alignment layers each have a layer thickness of 8 nm-60 nm.

16. (Previously Presented) A display according to claim 1, wherein said alignment layers each have a layer thickness of 10 nm-25 nm.

17. (Previously Presented) A display according to claim 1, wherein said display has a nematic phase range of at least  $-20^{\circ}$  to  $70^{\circ}$ , a birefringence of 0.100 to 0.180, a threshold voltage of less than or equal to 1.8 V, and a steepness value of the electro-optical characteristic line of less than or equal to 1.100.

18. (Previously Presented) A display according to claim 1, wherein said alignment layers each have a refractive index of 1.550 to 1.800.

19. (Previously Presented) A display according to claim 1, wherein said liquid-

crystal layer having a surface tilt angle of 3°-15°.

20. (Previously Presented) An electro-optical liquid-crystal display comprising a layer of liquid-crystal medium between two substrates with alignment layers on inside surfaces of each of said substrates;  
the liquid-crystal layer having a twist angle, from one substrate to the other, of 110°-360°;  
the liquid-crystal layer having a surface tilt angle of 2°-20°;  
each of said alignment layers having a thickness of 3 nm-150 nm; and  
at least one of said alignment layers is an organic layer, and

wherein the difference from 1 of the steepness of the electric-optical characteristic line, represented by the formula  $V_{90}/V_{10}-1$ , is half or less of the corresponding value of an otherwise identical display in which the layer thicknesses of each of the alignment layers is 100 nm.

21. (Cancelled)

22. (Previously Presented) A display according to claim 20, at least one of said alignment layers has a layer thickness of 4 nm-60 nm.

23. (Previously Presented) In a method of displaying information using an electro-optical liquid-crystal display, the improvement wherein said display is one in accordance with claim 20.

24. (Cancelled)

25. (Currently Amended) A display according to claim 20 24, wherein the steepness of the electro-optical characteristic line  $V_{90}/V_{10}$  is 1.06 or less.

26. (Currently Amended) A display according to claim 20 24, wherein the threshold voltage ( $V_{10}$ ) of the display is 1.20 V or less.

27. (Currently Amended) A display according to claim 20 24, wherein said organic alignment layers are a polyamide layer.

28. (Currently Amended) A display according to claim 20 24, wherein said alignment layers each have a layer thickness of 7 nm-80 nm.
29. (Currently Amended) A display according to claim 20 24, wherein said alignment layers each have a layer thickness of 8 nm-60 nm.
30. (Currently Amended) A display according to claim 20 24, wherein said alignment layers each have a layer thickness of 10 nm-25 nm.
31. (Currently Amended) A display according to claim 20 24, wherein said display has a nematic phase range of at least  $-20^{\circ}$  to  $70^{\circ}$ , a birefringence of 0.100 to 0.180, a threshold voltage of less than or equal to 1.8 V, and a steepness value of the electro-optical characteristic line of less than or equal to 1.100.
32. (Currently Amended) A display according to claim 20 24, wherein said alignment layers each have a refractive index of 1.550 to 1.800.
33. (Currently Amended) A display according to claim 20 24, wherein said liquid-crystal layer having a surface tilt angle of  $3^{\circ}$ - $15^{\circ}$ .
34. (Currently Amended) In a method of displaying information using an electro-optical liquid-crystal display, the improvement wherein said display is one in accordance with claim 20 24.
35. (New) An electro-optical liquid-crystal display comprising a layer of liquid-crystal medium between two substrates with alignment layers on inside surfaces of each of said substrates;  
the liquid-crystal layer having a twist angle, from one substrate to the other, of  $110^{\circ}$ - $360^{\circ}$ ;  
the liquid-crystal layer having a surface tilt angle of  $2^{\circ}$ - $20^{\circ}$ ; and  
each of said alignment layers having a thickness of 3 nm-150 nm, and  
wherein the difference from 1 of the steepness of the electric-optical characteristic line, represented by the formula  $V_{90}/V_{10}-1$ , is half or less of the corresponding value of an otherwise identical display in which the layer thicknesses of each of the alignment layers is 100 nm.